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## What is claimed is:

- A method for performing smooth search transitions in a DVD system, the method comprising:
  - (a) calculating an instantaneous frame rate;
  - (b) adjusting a timestamp of a frame based on the calculated instantaneous; and
  - (c) displaying the frame according to the adjusted timestamp.
- 2. The method of claim1 wherein calculating further comprises determining a change in rate between a current frame rate and a new frame rate.
  - 3. The method of claim 2 determining a transition interval for the change in rate.
- 4. The method of claim 3 wherein the transition interval further comprises an interval sufficient to maintain audio and video synchronization.
- 5. A DVD player system with smooth search transition capabilities, the system comprising:
  - a display device for displaying frames; and
- a decoding engine for calculating an instantaneous frame rate, adjusting a timestamp of a frame based on the calculated instantaneous, and providing the frame to the display device according to the adjusted timestamp.

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- 6. The DVD player system of claim 5 wherein the decoding engine further determines a change in rate between a current frame rate and a new frame rate.
- 7. The DVD player system of claim 6 wherein the decoding engine further determines a transition interval for the change in rate.
- 8. The DVD player system of claim 7 wherein the transition interval further comprises an interval sufficient to maintain audio and video synchronization.
- 9. The DVD player system of claim 5 wherein the DVD player system further comprises a PC-based DVD player.
- 10. A computer readable medium containing program instructions for performing search transitions in a DVD system, the instructions comprising:
  - (a) calculating an instantaneous frame rate;
  - (b) adjusting a timestamp of a frame based on the calculated instantaneous; and
  - (c) displaying the frame according to the adjusted timestamp.
- 11. The computer readable medium of claim 10 wherein calculating further comprises determining a change in rate between a current frame rate and a new frame rate.

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- 12. The computer readable medium of claim 11 determining a transition interval for the change in rate.
- 13. The computer readable medium of claim 12 wherein the transition interval further comprises an interval sufficient to maintain audio and video synchronization.